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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,065	12/04/2001	Stephen B. Krasulick	OPT-003	9476
23701 7	7590 03/31/2004		EXAMINER	
RAUSCHENBACH PATENT LAW GROUP, LLC			LEUNG, QUYEN PHAN	
P.O. BOX 387 BEDFORD, M			ART UNIT	PAPER NUMBER
BEDFORD, N	M. 01150		2828	

DATE MAILED: 03/31/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Application No. Applicant(s)				
	10/005,065	KRASULICK ET AL	KRASULICK ET AL.			
Offic Action Summary	Examiner	Art Unit	2.1			
	Quyen P. Leung	2828	- An			
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet w	vith the correspondence add	iress			
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b - Any reply received by the Office later than three months after the - earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a tion. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) MC and statute, cause the application to become a statute, cause the application to become a statute.	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	1 .					
	This action is non-final.					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-32 is/are pending in the applie 4a) Of the above claim(s) is/are w 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-32 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	ithdrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Ex	aminer.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection	to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	•	•.,	• •			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in a e priority documents have been Bureau (PCT Rule 17.2(a)).	Application No n received in this National S	Stage			
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94) Notice of Draftsperson's Patent Drawing Review (PTO-94)	48) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-	.152)			
Paper No(s)/Mail Date <u>3/19/02, 8/20/2002</u> .	6) Other:		102)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 14, 24, 30-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 14 recites the limitation "the electro-absorption modulation" in line 2.
 There is insufficient antecedent basis for this limitation in the claim. Did applicant mean –the electro-absorption modulator—instead?
- 4. Claim 24 recites the limitation "the electrical AC modulation signal" in the last line. There is insufficient antecedent basis for this limitation in the claim. Did applicant mean –the AC electrical modulation signal—instead?
- 5. Claim 30 recites the limitation "the semiconductor layers" in line 2. There is insufficient antecedent basis for this limitation in the claim.
- 6. Claim 31 recites the limitation "the semiconductor layers" in line 2. There is insufficient antecedent basis for this limitation in the claim.
- 7. Claim 32 recites the limitation "the electrical AC modulation signal" in the second from the last line. There is insufficient antecedent basis for this limitation in the claim.

 Did applicant mean –the AC electrical modulation signal—instead?

Claim Objections

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8. Claim 29 is objected to because of the following informalities: "though" in line 6 should be replaced with –through--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Applicant's admitted prior art. Applicant's admitted prior art discloses the claimed invention. Note applicant's specification, paragraph [0041] which teaches that prior art electro-absorption modulator is substantially transparent to light when a substantially zero bias is applied.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (571)272-1943. The examiner can normally be reached on 9-5:30, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (571)272-1941. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quyeh P. Leung Primary Examiner Art Unit 2828

QPL